

Claims

1. A generic system for integrating a target application to an authentication system for authenticating users of the target application, the generic system comprising a server coupled  
5 to a database of configuration information about a login process for the target application, the server being programmed to access the database of configuration information to conduct the login process with a user of the target application and to use the authentication system to authenticate the user and to enable the user to access the target application once the authentication system has authenticated the user, the generic system further including an  
10 administrative application for permitting a system administrator to create and edit the configuration information.

2. The generic system as claimed in claim 1, wherein the authentication system is a centralized authentication system of a business organization, and the target application is in a  
15 third-party web server coupled by a network to the centralized authentication system.

3. The generic system as claimed in claim 1, wherein the server is programmed to issuing at least one token to enable the user to access the target application once the authentication system has authenticated the user.

20

4. The generic system as claimed in claim 1, wherein a data network couples the target application to the server, the server is programmed to receive a Uniform Resource Locator including an identification of the target application, and the server is further programmed to

use the identification of the target application for looking up the configuration information from the database.

5. The generic system as claimed in claim 1, wherein the server is programmed to obtain  
5 from the database configuration information defining an inbound parameter, and the server is  
programmed to receive the inbound parameter from the target application.

6. The generic system as claimed in claim 1, wherein the server is programmed to obtain  
from the database configuration information defining a natural language, and the server is  
10 programmed to use the natural language for communication with the user during the login  
process.

7. The generic system as claimed in claim 1, wherein the server is programmed to obtain  
from the database configuration information defining an outbound parameter, and the server  
15 is programmed to send the outbound parameter to the target application once the  
authentication system has authenticated the user.

8. The generic system as claimed in claim 1, wherein the administrative application is  
programmed to present a graphical user interface to the system administrator for creating and  
20 editing the configuration information, and the graphical user interface includes pages for  
listing active and inactive target applications integrated with the authentication system, and  
pages for creating and editing a selected one of the target applications.

9. The generic system as claimed in claim 1, wherein the administrative application is programmed to present a graphical user interface to the system administrator for creating and editing the configuration information, and the graphical user interface includes pages for selecting a natural language for conducting the login process, for specifying inbound  
5 parameters to be received from the target application and outbound parameters to be sent to the target application, for configuring at least one authorization setting, for configuring at least one token, and for selecting an encryption option for encrypting the token.
10. The generic system as claimed in claim 9, wherein the graphical user interface  
10 includes at least one page for exporting and importing authentication integration projects.
11. The generic system as claimed in claim 1, wherein the administrative application is programmed to present a graphical user interface to the system administrator for creating and editing the configuration information, the administrative application includes a series of  
15 action modules for presenting respective pages of the graphical user interface to the system administrator, and the action modules are programmed for invoking business logic.
12. The generic system as claimed in claim 1, wherein the server includes a data cache coupled to the database.  
20
13. The generic system as claimed in claim 1, wherein the server is programmed with a plurality of authentication modules for integrating respective target applications to the

authentication system, and the server is programmed with an authentication module controller for directing user login requests to the respective authentication modules.

14. A generic token-based system for integrating a target application on a first server to  
5 an authentication system for authenticating users of the target application, the generic system comprising a second server coupled to a database of configuration information about a login process for the target application, the second server being programmed to access the database of configuration information to conduct the login process with a user of the target application and to use the authentication system to authenticate the user and to issue at least one token to  
10 enable the user to access the target application once the authentication system authenticates the user, wherein the second server is programmed to receive a Uniform Resource Locator including an identification of the target application, and the second server is further programmed to use the identification of the target application for looking up the configuration information for the login process from the database.

15

15. The generic system as claimed in claim 14, wherein the second server is programmed to obtain from the database configuration information defining an inbound parameter, and the second server is programmed to receive the inbound parameter from the target application.

20 16. The generic system as claimed in claim 14, wherein the second server is programmed to obtain from the database configuration information defining a natural language, and the second server is programmed to use the natural language for communication with the user during the login process.

17. The generic system as claimed in claim 14, wherein the second server is programmed to obtain from the database configuration information defining an outbound parameter, and the second server is programmed to send the outbound parameter to the target application  
5 once the authentication system has authenticated the user.

18. A method of integrating a target application to an authentication system for authenticating users of the target application, the method comprising a system administrator operating a graphical user interface to enter configuration information about a user login  
10 process into a database, the graphical user interface presenting a series of pages of configuration options to the system administrator, and once the configuration information has been entered into the database, accessing the configuration information in the database to conduct the user login process with a user of the target application and using the authentication system to authenticate the user and to enable the user to access the target  
15 application once the authentication system has authenticated the user.

19. The method as claimed in claim 18, wherein the authentication system is a centralized authentication system of a business organization, and the target application is in a third-party web server coupled by a network to the centralized authentication system, and the login  
20 process includes redirection of a user login request from the third-party web server to a server accessing the database and the centralized authentication system.

20. The method as claimed in claim 18, wherein the configuration database includes configuration information for configuring a plurality of applications to the authentication system, the target application transmits a Uniform Resource Locator including an identification of the target application, and the method includes obtaining the identification  
5 of the target application from the Uniform Resource Locator, and using the identification of the target application for looking up the configuration information for the target application from the database.

21. The method as claimed in claim 18, which includes obtaining from the database  
10 configuration information defining an inbound parameter, and receiving the inbound parameter from the target application.

22. The method as claimed in claim 18, which includes obtaining from the database configuration information defining a natural language, and using the natural language for  
15 communication with the user during the login process.

23. The method as claimed in claim 18, wherein the server accessing the database and the centralized authentication system is programmed to obtain from the database configuration information defining an outbound parameter, and the method includes sending the outbound  
20 parameter to the target application once the authentication system has authenticated the user.

24. The method as claimed in claim 18, which includes the graphical user interface presenting to the system administrator pages for listing active and inactive target applications

integrated with the authentication system, and pages for creating and editing a selected one of the target applications.

25      The method as claimed in claim 18, which includes the graphical user interface  
5      presenting to the system administrator pages for selecting a natural language for conducting the login process, for specifying inbound parameters to be received from the target application and outbound parameters to be sent to the target application, for configuring at least one authorization setting, for configuring at least one token, and for selecting an encryption option for encrypting the token.

10

26.      The method as claimed in claim 25, which includes the graphical user interface presenting to the system administrator at least one page for exporting and importing authentication integration projects.

15      27.      A method of using an authentication system for authenticating users of a target application on a first server, the method comprising maintaining a database of configuration information about a login process for the target application, and using a second server to access the database of configuration information to conduct the login process with a user of the target application and to use the authentication system to authenticate the user and to  
20      issue at least one token to enable the user to access the target application once the authentication system has authenticated the user, wherein a data network couples the first server to the second server, and the second server receives a Uniform Resource Locator including an identification of the target application and uses the identification of the target

application for looking up the configuration information for the login process from the database.

28. The method as claimed in claim 27, wherein the second server obtains from the  
5 database configuration information defining an inbound parameter, and the second server receives the inbound parameter from the target application.

29. The method as claimed in claim 27, wherein the second server obtains from the  
database configuration information defining a natural language, and the second server uses  
10 the natural language for communication with the user during the login process.

30. The method as claimed in claim 27, wherein the second server obtains from the  
database configuration information defining an outbound parameter, and the second server  
sends the outbound parameter to the target application once the authentication system has  
15 authenticated the user.

31. A method of integrating a third-party web application to a centralized authentication  
system, said method comprising a system administrator using a graphical user interface to  
select configuration options from a series pages to define the login process to be used when a  
20 user logs into the third-party web application, creating an authentication module for the third-  
party web application, and storing the configuration information in a database, redirecting a  
user login request from the third-party web application to a server containing the  
authentication module, and upon receipt of the user login request, the server activating the



authentication module to retrieve the configuration information from the database to conduct the login process and to use the authentication system for user authentication and then issuing a token for enabling user access to the third-party web application.